



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,719	01/16/2002	Matthew T. Scholz	57338US002	8633

32692 7590 08/26/2005

3M INNOVATIVE PROPERTIES COMPANY
PO BOX 33427
ST. PAUL, MN 55133-3427

EXAMINER

CHOI, FRANK I

ART UNIT	PAPER NUMBER
----------	--------------

1616

DATE MAILED: 08/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/051,719

Applicant(s)

SCHOLZ ET AL.

Examiner

Frank I. Choi

Art Unit

1616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-43 and 54-63 is/are pending in the application.
- 4a) Of the above claim(s) 22-24, 31-36 and 40 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21, 25-30, 37-39, 41-43 and 54-63 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>4/25/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-21, 25-30, 37-39, 41-43, 54-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kross et al. (US Pat. 5,618,841) in view of Brink et al. (US Pat. 5,173,291) and Beach (US Pat. 3,380,923) in further view of Talwalker et al. (US Pat. 5,462,714) and Richter et al. (US Pat. 6,379,685) in further view of Samour et al. (US Pat. 5,807,957).

Kross teaches the antimicrobial compositions containing iodophores, lactic acid, surfactants and the formation of films incorporating the above to form protective barriers having viscosities generally in the range from about 200 to 3,000 centipoise, using a suitable polymeric material which are known to those skilled in the art (See entire document, especially Columns 3-5, Column 6, lines 1-6, Examples I, II, II, IV, V).

Brink et al. teach that organic solvents such as ethyl alcohol or isopropyl alcohol are often used as solvent carrier, however, they can be irritating to skin tissue and are not suitable for use on sensitive tissue such as burn wound sites and mucosal tissue and that the vapors are often toxic and/or flammable (Column 1, lines 48-55). It is taught that increasing the water and bodily fluid resistance of topically applied antimicrobial agents increase the substantivity and length of activity and that compositions that can form a water insoluble film can, in addition to providing a long lasting antimicrobial activity, also provide a protective layer for sensitive tissue (Column 1,

Art Unit: 1616

lines 36-48). An composition is taught which is water-based, nonflammable, nonirritating and form low tack or tack free films, comprising iodine as the antimicrobial agent, and a mixture of monomers, including acrylates, in which the relative water resistance of the ultimate film is determined by the selection of comonomers to be used with iodine complexing comonomer and by adjusting the ratio of water insoluble comonomers to water soluble comonomers (Column 4, lines 5-68, Column 5, lines 35-68, Columns 6,7). It is taught that the emulsifiers commonly used include amphoteric surfactants and that the pH of the emulsions may be adjusted by the appropriate acidic species (Column 8, lines 28-63). It is taught that the films may be removed by covering with a surgical drape which includes a pressure-sensitive adhesive layer and by removing the surgical drape the film that is contacted by the adhesive layer is also removed (Column 9, lines 55-61).

Beach teaches that amphoteric surfactants, containing amine and sulfate groups, are suitable for use in preparing iodophore germicides suitable for use in the dairy industry (Columns 1, 2).

Talwalker et al. discloses that addition of buffering agents may result in loss of homogeneity due to iodophor precipitation and that providing sufficient amount of carrier, such as a non-ionic surfactant, will stabilize the iodophor (Column 5, lines 21-39). It is disclosed that the combination of acids, such as lactic acid, with iodine results in synergistic microbiocidal activity (Column 2, lines 15-27, Column 4, lines 3-13).

Richter et al. discloses that in personal care products, alpha-hydroxycarboxylic acids used at levels under 10% have shown to improve skin condition and that it is believed that application these acidulants on the bovine teat skin would accelerate healing and that the preferred acid is

Art Unit: 1616

lactic acid (Column 10, lines 26-48). It is disclosed that the pH is buffered to typically from 2.5 to 5.5 with the lower value being a limit to prevent excessive irritation on the teat surface and the upper limit to maintain the antimicrobial effect of the protonated carboxylic acids (Column 12, lines 55-68). It is disclosed that any acidulant and corresponding conjugate weak base could be used (Column 13, lines 1-3). It is disclosed that complexed iodines, unlike other antimicrobial agents, offer the advantage of being easily visible when applied to the teat (Column 16, lines 63-65). It is disclosed that the blend of acidulant and /or antimicrobial can be from 1-12 wt% and the buffer can be from 0-15 wt% (Column 17, lines 50-68, Column 18, lines 1-10).

Samour et al. disclose that cationic film forming polymers have improved durability on skin and if containing quaternary ammonium groups will have antimicrobial properties (Column 8, lines 33-45). It is disclosed that the film-forming polymer can be dispersed in water and include a pharmacologically active agent, such as alph-hydroxy acids (Column 14, lines 10-56).

The difference between the prior art and the claimed invention is that the prior art does not expressly disclose the combination of iodophor, lactic acid, and film-forming polymer, amphoteric surfactant and water. However, the prior art amply suggests the same as it is known in the art to prepare film-forming compositions containing iodophore, lactic acid, film-forming polymers, including acrylate polymers, and surfactants, including amphoteric surfactants.

Further, one of ordinary skill in the art would have been motivated to modify the prior art as above with the expectation that the combination would form an antimicrobial film suitable for use in the dairy field as a teat dip. Further, one of ordinary skill in the art would have been motivated to include a cationic film-forming polymer with the expectation that it would result in

a film having greater durability and, if containing quaternary ammonium substituents would increase the antimicrobial activity of the composition.

Examiner has duly considered Applicant's arguments but deems them unpersuasive.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 231 USPQ 375 (Fed. Cir. 1986). The test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Applicant argues that the examiner's conclusion of obviousness is based on improper hindsight reasoning. However, "[a]ny judgement on obviousness is in a sense necessarily a reconstruction based on hindsight reasoning, but so long as it takes into account only knowledge which was within the level of ordinary skill in the art at the time the claimed invention was made and does not include knowledge gleaned only from applicant's disclosure, such a reconstruction is proper." *In re McLaughlin* 170 USPQ 209, 212 (CCPA 1971). Further, there is no requirement that an "express, written motivation to combine must appear in prior art references before a finding of obviousness." See *Ruiz v. A.B. Chance Co.*, 69 USPQ2d 1686, 1690 (Fed. Cir. 2004). For example, motivation to combine prior art references may exist in the nature of the problem to be solved (*Ruiz* at 1276, 69 USPQ2d at 1690) or the knowledge of one of ordinary skill in the art (*National Steel Car v. Canadian Pacific Railway Ltd.*, 69 USPQ2d 1641, 1656

Art Unit: 1616

(Fed. Cir. 2004)). Applicant has based part of the argument relative to impermissible hindsight on the number of references. However, reliance on a large number of references in a rejection does not, without more, weigh against the obviousness of the claimed invention. See *In re Gorman*, 18 USPQ2d 1885 (Fed. Cir. 1991).

Applicant argues that the composition in Kross is not a surgical scrub, however, the limitation “surgical scrub” appears to go to intended use. For example, see Fredell et al. (US Patent App. Pub. 2001/0036482), Abstract (composition can be used as teat dip or surgical scrub). A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Applicant argues that if the range of 0.05% to 5.0% is “desirable” then amounts outside this range would be “undesirable”. However, this is no different than arguing that amounts outside this range are non-preferred. Disclosed examples and preferred embodiments do not constitute a teaching away from a broader disclosure or nonpreferred embodiments. *In re Susi*, 169 USPQ 423 (CCPA 1971). “A known or obvious composition does not become patentable simply because it has been described as somewhat inferior to some other product for the same use.” *In re Gurley*, 31 USPQ2d 1130, 1132 (Fed. Cir. 1994). As indicated above Richter et al. discloses the use of acids at amounts greater than 5 wt%.

Further, in the case where the claimed ranges “overlap or lie inside ranges disclosed by the prior art” a *prima facie* case of obviousness exists. *In re Wertheim*, 191 USPQ 90 (CCPA

Art Unit: 1616

1976); *In re Woodruff*, 16 USPQ2d 1934 (Fed. Cir. 1990) (The prior art taught carbon monoxide concentrations of “about 1-5%” while the claim was limited to “more than 5%.” The court held that “about 1-5%” allowed for concentrations slightly above 5% thus the ranges overlapped.); *In re Geisler*, 43 USPQ2d 1362, 1365-66 (Fed. Cir. 1997) (Claim reciting thickness of a protective layer as falling within a range of “50 to 100 Angstroms” considered *prima facie* obvious in view of prior art reference teaching that “for suitable protection, the thickness of the protective layer should be not less than about 10 nm [i.e., 100 Angstroms].” The court stated that “by stating that suitable protection’ is provided if the protective layer is about’ 100 Angstroms thick, [the prior art reference] directly teaches the use of a thickness within [applicant’s] claimed range.”).

Similarly, a *prima facie* case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties. *Titanium Metals Corp. of America v. Banner*, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985) (Court held as proper a rejection of a claim directed to an alloy of “having 0.8% nickel, 0.3% molybdenum, up to 0.1% iron, balance titanium” as obvious over a reference disclosing alloys of 0.75% nickel, 0.25% molybdenum, balance titanium and 0.94% nickel, 0.31% molybdenum, balance titanium.). Further, “where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation.” *In re Aller*, 105 USPQ 233, 235 (CCPA 1955) (Claimed process which was performed at a temperature between 40°C and 80°C and an acid concentration between 25% and 70% was held to be *prima facie* obvious over a reference process which differed from the claims only in that the reference process was performed at a temperature of 100°C and an acid concentration of 10%.); see also *In re Peterson*, 65 USPQ2d 1379, 1382 (Fed. Cir. 2003) (“The

Art Unit: 1616

normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages"). The amount of 5% of the hydroxyacid in combination with iodophore is disclosed to be antimicrobial, as such, one ordinary skill in the art would expect that higher amounts hydroxyacid in combination with iodophore would also be antimicrobial.

Applicant argues that the teachings of Richter et al. are not as broadly applicable to the rejection herein. However, Richter et al. discloses a motivation which is independent from the section cited by Applicant. Richter et al. discloses that by incorporating alpha-hydroxycarboxylic acids in amounts under 10% healing may be accelerated and cleaning and asepsis may be improved on the bovine teat skin (Column 10, lines 27-48).

Applicant argues that high concentrations of hydroxycarboxylic acid buffers would be expected to contribute to poor PSA-coated product adhesion, however, Applicant does not indicate what would be considered to be a high amount. The prior art discloses the formation of films which form a protective barrier with amounts of hydroxyacid in the amounts greater than 5%. As such, the fact that hydroxycarboxylic acids may contribute to poor PSA-coated product adhesion is not sufficient to teach away from using the same. Richter et al. recognizes that acids have an effect on the polymer film and that adjustments can be made to account for the hydrophilic components (Richter et al., Column 11, lines 64-68, Column 12, lines 1-35). Applicant appears to narrowly interpret the above cited passage. Clearly, hydroxycarboxylic acids are hydrophilic, thus, will effect the hydrophilic-hydrophobic balance of the film. As indicated above, Richter et al. recognizes that adjustments can be made to account for the

Art Unit: 1616

increased presence of hydrophilic substances in order to maintain the desired characteristics of the film, i.e. adherence to the teat skin.

Applicant argues that the polymer in Kross are not necessarily substantive. However, Applicant has not provide any evidence of the same. The arguments of counsel cannot take the place of evidence in the record. In re Schulze, 145 USPQ 716, 718 (CCPA 1965); In re Geisler, 43 USPQ2d 1362 (Fed. Cir. 1997) ("An assertion of what seems to follow from common experience is just attorney argument and not the kind of factual evidence that is required to rebut a prima facie case of obviousness."). Further, Brinks et al. discloses the advantages of choosing a polymer which provides substantivity and Samour et al. discloses cationic film-forming polymer which have hydrophilic and hydrophobic moieties. Again, there is no requirement that Kross has to teach the use of substantive polymers as the rejection herein is based on a combination of references. The fact that Kross discloses some polymers which are not substantive does not overcome the rejection. The prior art above discloses the advantages of choosing a polymer which is substantative.

Examiner has duly considered the Scholz declaration, however, said declaration does not overcome the rejection herein. In the first instance, Examiner notes that instead of just adding additional acid, the experiments add both acid and sodium phosphate. Examiner does not find fault with the initial buffer mixture but the subsequent addition of a buffer mixture containing the lactic acid and sodium phosphate. It is true that general aspects of the comparative test were discussed in an interview, however, the issue was whether additional hydroxycarboxylic acid would be compatible not the addition of a combination of said acid and sodium phosphate. In any case, the problem of instability due to the addition of buffering compounds is recognized in

Art Unit: 1616

the art and methods of preventing the same are disclosed (See Talawalker et al. above). As such, one of ordinary skill in the art would be able to adjust the composition in Brink et al. to account for any instability which may be caused by addition of a buffer in the amounts desired.

Contrary to Applicant's arguments, the cited disclosure in Talawalker et al. and Brink do not teach away from the combination of the references. In the first instance, Brink et al. discloses an emulsion which is not necessarily a dispersion (Column 5, lines 35-53). In any case, Applicant fails to indicate what significance the difference between an emulsion and solution has on the teachings of the references. Talwalker et al. does not teach away from a two-phase composition. The amounts disclosed in Brink et al. is not a maximum amount. In any case, the amounts of emulsifier in Talwalker et al. are for a composition which is typically diluted for use. However, the dilution is not required to be between substantially 50-800 parts water to 1 part iodine-fatty acid(s) active agent. As such, Talwalker suggests available iodine concentrations of more than 0.25wt% and hydroxycarboxylic acid of more than 5 wt%. As such, the amendment to claim 42 with respect to use composition does not distinguish the claim from the prior art.

With respect to claim 43, the claim states "no greater than about 100 cps" which includes a viscosity which is greater than 100 cps. Kross discloses that the viscosity may generally be about 200 to 3000 cps, as such, Kross suggests viscosities lower than 200 cps. There is no showing by Applicant that there is an unexpected advantage between 200 cps and 100 cps. Brink discloses examples having viscosities as low as 53 cps or less (Column 11, lines 27-68, column 12, lines 1-15). As such, it would have been well within the skill of to use lower viscosities in so far as long as the composition forms a film upon drying.

Art Unit: 1616

Applicant is incorrect that Kross does not disclose the use of a surfactant. The IGEPAL CO-720 does not form the iodophor, the iodophor is already premade. The IGEPAL CO-720 is added to the iodophor concentrate. See Kross at Column 3, lines 28-32. Again, Applicant's focus on a disclosed embodiment and Kross et al. is insufficient to overcome the rejection as the rejection is based on the combination of references and the claimed invention need not be expressly disclosed in any single or all of the references. The other prior art discloses the use of other types of surfactants, including amphoteric surfactants. Similarly, there is no requirement that has to disclose high amounts of hydroxycarboxylic acid buffer. Further, the motivation to combine Beach is that Beach discloses that amphoteric surfactants are suitable for use in preparing iodophors.

Applicant argues that there is no teaching or suggestion of how to provide antiseptics having increased speed of bactericidal activity on skin without substantial irritation while still allowing adhesion of PSA-coated products and good substantivity. However, nothing in the art precludes the use of higher amounts of acid and the prior art, as indicated above, discloses that excessive irritancy itself can be prevented by buffering to an appropriate pH or the use of emollients or humectants (Richter et al., Column 13, lines 25-33, Column 12, lines 55-64). Applicant previously cited to Poucher's *Perfumes, Cosmetics and Soaps* which indicated the use of alpha-hydroxy acids at amounts up to 15% and that because of their low pH were supplied as buffered solutions of pH 4.5. As such, the irritancy of said acids is not surprising and methods of preventing said irritancy are within the skill of one ordinary skill in the art. As such, the fact that said acids can be irritating is insufficient to preclude one of ordinary skill in the art from using amounts of acids at greater than 5% and one of ordinary skill in the art would use higher amounts

Art Unit: 1616

because of their beneficial effects on skin. Further, as indicated above, the effects of hydrophilic substances on polymer films is disclosed by the prior art as can readily be accounted for by one of ordinary skill in the art.

Therefore, the claimed invention, as a whole, would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, because every element of the invention has been collectively taught by the combined teachings of the references.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-21, 25-30, 37-39, 41-43, 54-63 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7, 16-25, 27, 29-44, 47-60 of copending Application No. 10/922,262 or claims 1-7, 16-25, 27, 29-44, 47-59 of US Pat. 6,838,078 in view of Kross et al. (US Pat. 5,618,841), Brink et al. (US Pat. 5,173,291) and Beach (US Pat. 3,380,923) in further view of Talwalker et al. (US Pat. 5,462,714) and Richter et al. (US Pat. 6,379,685) in further view of Samour et al. (US Pat. 5,807,957).

The cited claims of the above-mentioned application teach a film forming composition comprising polymer containing a hydrophobic polymer, such as methacrylic, water, a surfactant,

Art Unit: 1616

such as an amphoteric surfactant, which can contain an antimicrobial agent, such as iodophor, and a hydroxy-carboxylic acid buffer, such as lactic acid.

Kross et al. (US Pat. 5,618,841), Brink et al. (US Pat. 5,173,291), Beach (US Pat. 3,380,923), Talwalker et al. (US Pat. 5,462,714), Richter et al. (US Pat. 6,379,685) and Samour et al. (US Pat. 5,807,957) are cited herein for the same reasons as above and are incorporated herein to avoid repetition.

The difference between the claims of the cited application and the claimed invention is that the prior art does not expressly disclose the combination of iodophor, lactic acid, an acrylate film-forming polymer, amphoteric surfactant and water. However, the prior art amply suggests the same as it is known in the art to prepare film-forming compositions containing iodophore, lactic acid, film-forming polymers, including acrylate polymers, and surfactants, including amphoteric surfactants. Further, one of ordinary skill in the art would have been motivated to modify the prior art as above with the expectation that the combination would form an antimicrobial film suitable for use in the dairy field as a teat dip. Further, one of ordinary skill in the art would have been motivated to include a cationic film-forming polymer with the expectation that it would result in a film having greater durability and, if containing quaternary ammonium substituents would increase the antimicrobial activity of the composition.

Therefore, the claimed invention, as a whole, would have been an obvious modification of the claims of said copending US application or US Patent to one of ordinary skill in the art at the time the invention was made, because every element of the invention has been collectively taught by the combined teachings of the references and the claims of said application.

Art Unit: 1616

Examiner notes that only the rejection over the copending US application is a provisional obviousness-type double patenting rejection with respect to the copending US application. The rejection over the US Patent is NOT provisional.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

A facsimile center has been established in Technology Center 1600. The hours of operation are Monday through Friday, 8:45 AM to 4:45 PM. The telecopier number for accessing the facsimile machine is 571-273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Choi whose telephone number is (571)272-0610. Examiner maintains a flexible schedule. However, Examiner may generally be reached Monday-Friday, 8:00 am – 5:30 pm (EST), except the first Friday of the each biweek which is Examiner's normally scheduled day off.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Gary Kunz, can be reached at 571-272-0887. Additionally, Technology Center 1600's Receptionist and Customer Service can be reached at (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FIC

August 19, 2005



SABIHA QAZI, PH.D
PRIMARY EXAMINER